

# WEST Search History

DATE: Monday, November 24, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
	<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>		
L1	\$6particle or \$6particulate or \$6sphere or \$6balloon or grain or \$6crystal or \$6seed or \$6bead	2450525	L1
L2	L1 with glass	111760	L2
L3	L2 with size	15311	L3
L4	L1 with size	446922	L4
L5	L1 with (density or concentration)	149949	L5
L6	l2 and l4 and L5	7867	L6
L7	silica\$4 or silicon or SiO\$2	1259505	L7
L8	alumin\$2 or Al\$1O\$1	2684334	L8
L9	l7 same L8	341678	L9
L10	l2 same L9	5951	L10
L11	L10 and (boron or B\$1O\$1)	2843	L11
L12	L11 and (sodium oxide or Na\$1O)	363	L12
L13	L12 and (potassium oxide or K\$1O)	218	L13
L14	L13 and (lithium oxide or Li\$1O)	120	L14
L15	L14 and (calcium oxide or CaO)	87	L15
L16	L15 and (magnesium oxide or MgO)	68	L16
L17	L16 and (barium oxide or BaO)	56	L17
L18	L17 and (strontium oxide or SrO)	38	L18
L19	L18 and l6	5	L19
L20	L5 and l9	26722	L20
L21	L5 and l10	952	L21
L22	L21 and l11	519	L22
L23	L21 and l18	8	L23

END OF SEARCH HISTORY

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 8 of 8 returned.**

1. Document ID: US 20030118841 A1

L23: Entry 1 of 8

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030118841

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030118841 A1

TITLE: Optical materials and optical devices

PUBLICATION-DATE: June 26, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Horne, Craig R.	Fremont	CA	US	
DeMascarel, Peirre J.	Sunnyvale	CA	US	
Honeker, Christian C.	Woodside	CA	US	
Chaloner-Gill, Benjamin	San Jose	CA	US	
Lopez, Herman A.	Sunnyvale	CA	US	
Bi, Xiangxin	San Ramon	CA	US	
Mosso, Ronald J.	Fremont	CA	US	
McGovern, William E.	LaFayette	CA	US	
Gardner, James T.	San Jose	CA	US	
Kumar, Sujeet	Newark	CA	US	
Gilliam, James A.	Newman	CA	US	
Pham, Vince	San Jose	CA	US	
Euvrard, Eric	Mountain View	CA	US	
Chiruvolu, Shivkumar	San Jose	CA	US	
Jur, Jesse	Mountain View	CA	US	

US-CL-CURRENT: 428/425.9; 428/384, 428/402[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KWD](#) | [Draw Desc](#) | [Image](#)

2. Document ID: US 20030055179 A1

L23: Entry 2 of 8

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030055179

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030055179 A1

TITLE: Olefin block copolymers processes for producing the same and uses thereof

PUBLICATION-DATE: March 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ota, Seiji	Kuga-gun		JP	
Moriya, Satoru	Ichihara-shi		JP	
Mori, Ryoji	Kuga-gun		JP	
Koda, Taku	Kuga-gun		JP	
Tan, Junji	Kuga-gun		JP	
Kojoh, Shinichi	Sodegaura-shi		JP	
Kaneko, Hideyuki	Sodegaura-shi		JP	
Hama, Shunichi	Chiba-shi		JP	
Nobori, Tadahito	Sodegaura-shi		JP	
Matsugi, Tomoaki	Sodegaura-shi		JP	
Kashiwa, Norio	Sodegaura-shi		JP	

US-CL-CURRENT: 525/242; 525/313

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMD](#) | [Draw Desc](#) | [Image](#)

3. Document ID: DE 19643231 A1

L23: Entry 3 of 8

File: EPAB

Apr 23, 1998

PUB-NO: DE019643231A1

DOCUMENT-IDENTIFIER: DE 19643231 A1

TITLE: Transforming lithium aluminium silicate glass into glass-ceramic

PUBN-DATE: April 23, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
HOFFMANN, HELGE DR	DE
REUTERS, THEODOR DR	DE
PANNHORST, WOLFGANG DR	DE

INT-CL (IPC) : C03 C 10/14; C03 C 3/083; G02 B 1/12

EUR-CL (EPC) : C03C010/00; G02B001/12

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KMD](#) | [Draw Desc](#) | [Image](#)

4. Document ID: DE 4309701 C1

L23: Entry 4 of 8

File: EPAB

Jun 30, 1994

PUB-NO: DE004309701C1

DOCUMENT-IDENTIFIER: DE 4309701 C1

TITLE: TITLE DATA NOT AVAILABLE

PUBN-DATE: June 30, 1994

INVENTOR-INFORMATION:

NAME	COUNTRY
CLEMENT, MARC	DE
BRIX, PETER	DE
GASCHLER, LUDWIG	DE

INT-CL (IPC) : C03C 3/078; C03C 4/00; C03C 3/097  
EUR-CL (EPC) : C03C003/087; C03C003/097, C03C004/00

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

5. Document ID: EP 1160212 A1 JP 2002087832 A US 20020004111 A1 JP 2002087831

A

L23: Entry 5 of 8

File: DWPI

Dec 5, 2001

DERWENT-ACC-NO: 2002-141547

DERWENT-WEEK: 200225

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Hollow aluminosilicate glass micro-spheres with good heat resistance and heat insulation properties, low specific gravity, improved size stability and mouldability

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

6. Document ID: DE 19643231 A1 DE 19643231 C2

L23: Entry 6 of 8

File: DWPI

Apr 23, 1998

DERWENT-ACC-NO: 1998-241572

DERWENT-WEEK: 199902

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Transforming lithium aluminium silicate glass into glass-ceramic - by photo-induced nucleation to obtain quartz-rich mixed crystals as main crystalline phase

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

7. Document ID: DE 4309701 C1 DE 59400204 G EP 616984 A1 EP 616984 B1

L23: Entry 7 of 8

File: DWPI

Jun 30, 1994

DERWENT-ACC-NO: 1994-192746

DERWENT-WEEK: 199626

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Lead-free crystal glass having solarisation resistance - used to mfr good quality glasses and household objects

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

8. Document ID: US 4687749 A JP 2648673 B2 EP 265045 A JP 63112439 A EP 265045 B DE 3769271 G

L23: Entry 8 of 8

File: DWPI

Aug 18, 1987

DERWENT-ACC-NO: 1988-070377

DERWENT-WEEK: 199740

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Refractory glass-ceramics, contg. magnesia, silica and alumina - and opt. lithia, alkaline earth oxide and zirconia, have high concn. of enstatite crystal phase, giving high strength and use temp.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)[KuMC](#) | [Draw Desc](#) | [Image](#)[Generate Collection](#)[Print](#)

Terms	Documents
L21 and 118	8

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# WEST Search History

DATE: Monday, November 24, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
		result set	
	<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>		
L1	matsubara-toshiya\$.in. or tanaka-masaharu\$.in. or kusaka-makoto\$.in. or yamada-kenji\$.in.	1966	L1
L2	L1 and glass	271	L2
L3	L2 and (silica or silicon or SiO\$2)	65	L3
L4	L3 and (alumina or aluminum or Al\$1O\$1)	27	L4
L5	L4 and size	20	L5
L6	L5 and density	19	L6

END OF SEARCH HISTORY

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 19 of 19 returned.** 1. Document ID: US 20020006372 A1

L6: Entry 1 of 19

File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020006372

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020006372 A1

TITLE: Sodium-based dechlorinating agent and waste treatment equipment

PUBLICATION-DATE: January 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sugimoto, Tomio	Chiba		JP	
Itaya, Masumi	Chiba		JP	
Hirano, Yoshinao	Tokyo		JP	
Harada, Hiroaki	Tokyo		JP	
Hirano, Hachiro	Tokyo		JP	
Sakurai, Shigeru	Fukuoka		JP	
Yoshida, Makoto	Tokyo		JP	
<u>Tanaka, Masaharu</u>	Chiba		JP	

US-CL-CURRENT: 423/267; 422/170, 423/210, 423/240S, 423/245.1, 423/422[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#) 2. Document ID: US 20020004111 A1

L6: Entry 2 of 19

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004111

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004111 A1

TITLE: Hollow glass microspheres and process for their production

PUBLICATION-DATE: January 10, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Matsubara, Toshiya</u>	Chiba		JP	
<u>Tanaka, Masaharu</u>	Chiba		JP	
<u>Kusaka, Makoto</u>	Chiba		JP	
<u>Yamada, Kenji</u>	Chiba		JP	
Nakao, Yasumasa	Kanagawa		JP	

US-CL-CURRENT: 428/34.4

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

3. Document ID: US 20010043996 A1

L6: Entry 3 of 19

File: PGPB

Nov 22, 2001

PGPUB-DOCUMENT-NUMBER: 20010043996

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010043996 A1

TITLE: Hollow aluminosilicate glass microspheres and process for their production

PUBLICATION-DATE: November 22, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Yamada, Kenji</u>	Chiba		JP	
<u>Hirano, Hachiro</u>	Chiba		JP	
<u>Kusaka, Makoto</u>	Chiba		JP	
<u>Tanaka, Masaharu</u>	Chiba		JP	

US-CL-CURRENT: 428/34.4; 428/428, 65/17.3, 65/32.4, 65/60.8

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

4. Document ID: US 20010008688 A1

L6: Entry 4 of 19

File: PGPB

Jul 19, 2001

PGPUB-DOCUMENT-NUMBER: 20010008688

PGPUB-FILING-TYPE: new-utility

DOCUMENT-IDENTIFIER: US 20010008688 A1

TITLE: Recording medium excellent in ink absorptivity and process for its production, and process for producing silica-alumina composite sol

PUBLICATION-DATE: July 19, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
<u>Nakahara, Katsumasa</u>	Chiba		JP	
<u>Inokuma, Hisao</u>	Chiba		JP	
<u>Hirano, Hachiro</u>	Tokyo		JP	
<u>Matsubara, Toshiya</u>	Chiba		JP	
<u>Wakabayashi, Masako</u>	Kanagawa		JP	
<u>Kon, Yoshinori</u>	Chiba		JP	

US-CL-CURRENT: 428/323; 427/387, 427/394, 427/395, 428/404, 516/80

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

5. Document ID: US 6630213 B2

L6: Entry 5 of 19

File: USPT

Oct 7, 2003

US-PAT-NO: 6630213

DOCUMENT-IDENTIFIER: US 6630213 B2

TITLE: Recording medium excellent in ink absorptivity and process for its production, and process for producing silica-alumina composite sol

DATE-ISSUED: October 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakahara; Katsumasa	Chiba			JP
Inokuma; Hisao	Chiba			JP
Hirano; Hachiro	Tokyo			JP
<u>Matsubara; Toshiya</u>	Chiba			JP
Wakabayashi; Masako	Kanagawa			JP
Kon; Yoshinori	Chiba			JP

US-CL-CURRENT: 428/32.32; 428/32.31

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">KDDC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 6. Document ID: US 6623820 B1

L6: Entry 6 of 19

File: USPT

Sep 23, 2003

US-PAT-NO: 6623820

DOCUMENT-IDENTIFIER: US 6623820 B1

TITLE: Silica-alumina composite sol, processes for producing the same, and recording medium

DATE-ISSUED: September 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakahara; Katsumasa	Chiba			JP
Torimoto; Noriko	Chiba			JP
Hirano; Hachiro	Chiba			JP
<u>Matsubara; Toshiya</u>	Kanagawa			JP
Suzuki; Shinichi	Kanagawa			JP
Inokuma; Hisao	Chiba			JP
Wakabayashi; Hirokazu	Kanagawa			JP

US-CL-CURRENT: 428/32.37; 106/286.8

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">KDDC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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 7. Document ID: US 6531222 B1

L6: Entry 7 of 19

File: USPT

Mar 11, 2003

US-PAT-NO: 6531222

DOCUMENT-IDENTIFIER: US 6531222 B1

TITLE: Fine hollow glass sphere and method for preparing the same

DATE-ISSUED: March 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Tanaka; Masaharu</u>	Ichihara			JP
<u>Hirano; Hachiro</u>	Ichihara			JP
<u>Yamada; Kenji</u>	Ichihara			JP

US-CL-CURRENT: 428/402; 428/404, 428/406, 501/39, 65/21.4

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMD](#) | [Drawn Desc](#) | [Image](#)

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8. Document ID: US 6482379 B1

L6: Entry 8 of 19

File: USPT

Nov 19, 2002

US-PAT-NO: 6482379

DOCUMENT-IDENTIFIER: US 6482379 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Sodium-based dechlorinating agent and waste treatment equipment

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sugimoto; Tomio	Chiba			JP
Itaya; Masumi	Chiba			JP
Hirano; Yoshinao	Tokyo			JP
Harada; Hiroaki	Tokyo			JP
Hirano; Hachiro	Tokyo			JP
Sakurai; Sigeru	Fukuoka			JP
Yoshida; Makoto	Tokyo			JP
<u>Tanaka; Masaharu</u>	Chiba			JP

US-CL-CURRENT: 423/267; 106/286.7, 106/482, 423/422

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMD](#) | [Drawn Desc](#) | [Image](#)

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9. Document ID: US 6478878 B1

L6: Entry 9 of 19

File: USPT

Nov 12, 2002

US-PAT-NO: 6478878

DOCUMENT-IDENTIFIER: US 6478878 B1

TITLE: Blasting medium and blasting method

DATE-ISSUED: November 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Tanaka; Masaharu</u>	Ichihara			JP
<u>Hirano; Hachiro</u>	Ichihara			JP
<u>Yoshida; Makoto</u>	Kitakyushu			JP

US-CL-CURRENT: 134/7; 134/6, 451/36, 451/37, 451/38, 51/307, 51/308

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMLC](#) | [Drawn Desc](#) | [Image](#)

10. Document ID: US 6352653 B1

L6: Entry 10 of 19

File: USPT

Mar 5, 2002

US-PAT-NO: 6352653

DOCUMENT-IDENTIFIER: US 6352653 B1

TITLE: Acid component-removing agent, method for producing it and method for removing acid components

DATE-ISSUED: March 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Hirano; Hachiro</u>	Ichihara			JP
<u>Yoshida; Makoto</u>	Kitakyusyu			JP
<u>Noda; Hiroaki</u>	Ichihara			JP
<u>Sakurai; Shigeru</u>	Kitakyusyu			JP
<u>Kusaka; Makoto</u>	Ichihara			JP
<u>Tanaka; Masaharu</u>	Ichihara			JP

US-CL-CURRENT: 252/189; 423/421, 423/422

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMLC](#) | [Drawn Desc](#) | [Image](#)

11. Document ID: US 6077341 A

L6: Entry 11 of 19

File: USPT

Jun 20, 2000

US-PAT-NO: 6077341

DOCUMENT-IDENTIFIER: US 6077341 A

TITLE: Silica-metal oxide particulate composite and method for producing silica agglomerates to be used for the composite

DATE-ISSUED: June 20, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Terase; Kunihiko</u>	Kitakyushu			JP
<u>Tanaka; Masaharu</u>	Kitakyushu			JP
<u>Inoue; Masaki</u>	Kitakyushu			JP
<u>Ono; Eiichi</u>	Kitakyushu			JP
<u>Sasaki; Takayoshi</u>	Kitakyushu			JP

US-CL-CURRENT: 106/482; 106/425, 106/436, 106/444, 106/446, 106/454, 106/492[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 12. Document ID: US 5896154 A

L6: Entry 12 of 19

File: USPT

Apr 20, 1999

US-PAT-NO: 5896154

DOCUMENT-IDENTIFIER: US 5896154 A

TITLE: Ink jet printer

DATE-ISSUED: April 20, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mitani; Masao	Hitachinaka			JP
<u>Yamada; Kenji</u>	Hitachinaka			JP
Machida; Osamu	Hitachinaka			JP

US-CL-CURRENT: 347/102; 347/104[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 13. Document ID: US 5849055 A

L6: Entry 13 of 19

File: USPT

Dec 15, 1998

US-PAT-NO: 5849055

DOCUMENT-IDENTIFIER: US 5849055 A

TITLE: Process for producing inorganic microspheres

DATE-ISSUED: December 15, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arai; Kiyotaka	Ichihara			JP
<u>Yamada; Kenji</u>	Ichihara			JP
Hirano; Hachiro	Ichihara			JP
Satoh; Masakuni	Yokohama			JP

US-CL-CURRENT: 65/17.3; 264/15, 264/434, 501/33, 501/84, 501/85, 65/21.1, 65/21.3,  
65/21.4[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 14. Document ID: US 5831648 A

L6: Entry 14 of 19

File: USPT

Nov 3, 1998

US-PAT-NO: 5831648

DOCUMENT-IDENTIFIER: US 5831648 A

\*\* See image for Certificate of Correction \*\*

TITLE: Ink jet recording head

DATE-ISSUED: November 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mitani; Masao	Hitachinaka			JP
<u>Yamada; Kenji</u>	Hitachinaka			JP
Kawasumi; Katsunori	Hitachinaka			JP
Shimizu; Kazuo	Hitachinaka			JP
Machida; Osamu	Hitachinaka			JP

US-CL-CURRENT: 347/62; 347/56

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KINIC](#) | [Draw Desc](#) | [Image](#)

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15. Document ID: US 5697144 A

L6: Entry 15 of 19

File: USPT

Dec 16, 1997

US-PAT-NO: 5697144

DOCUMENT-IDENTIFIER: US 5697144 A

TITLE: Method of producing a head for the printer

DATE-ISSUED: December 16, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mitani; Masao	Hitachinaka			JP
<u>Yamada; Kenji</u>	Hitachinaka			JP
Kawasumi; Katsunori	Hitachinaka			JP
Shimizu; Kazuo	Hitachinaka			JP
Machida; Osamu	Hitachinaka			JP

US-CL-CURRENT: 29/611; 216/27, 347/65

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

[KINIC](#) | [Draw Desc](#) | [Image](#)

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16. Document ID: US 5691046 A

L6: Entry 16 of 19

File: USPT

Nov 25, 1997

US-PAT-NO: 5691046

DOCUMENT-IDENTIFIER: US 5691046 A

TITLE: Recording medium

DATE-ISSUED: November 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Matsubara; Toshiya</u>	Yokohama			JP
<u>Yokota; Nobuyuki</u>	Yokohama			JP

US-CL-CURRENT: 428/32.16; 346/135.1, 347/105, 428/206, 428/218, 428/318.4, 428/331,  
428/910

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17. Document ID: US 5666140 A

L6: Entry 17 of 19

File: USPT

Sep 9, 1997

US-PAT-NO: 5666140

DOCUMENT-IDENTIFIER: US 5666140 A

TITLE: Ink jet print head

DATE-ISSUED: September 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Mitani; Masao</u>	Katsuta			JP
<u>Yamada; Kenji</u>	Katsuta			JP
<u>Machida; Osamu</u>	Katsuta			JP

US-CL-CURRENT: 347/12; 347/40, 347/59, 347/62

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18. Document ID: US 5445868 A

L6: Entry 18 of 19

File: USPT

Aug 29, 1995

US-PAT-NO: 5445868

DOCUMENT-IDENTIFIER: US 5445868 A

TITLE: Recording sheet and record

DATE-ISSUED: August 29, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Harasawa; Masako</u>	Yokohama			JP
<u>Misuda; Katsutoshi</u>	Yokohama			JP
<u>Matsubara; Toshiya</u>	Yokohama			JP
<u>Tanuma; Toshihiro</u>	Yokohama			JP

US-CL-CURRENT: 428/32.36; 347/105, 428/323, 428/331

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19. Document ID: JP 09124327 A

L6: Entry 19 of 19

File: JPAB

May 13, 1997

PUB-N0: JP409124327A

DOCUMENT-IDENTIFIER: JP 09124327 A

TITLE: FINE HOLLOW GLASS BALL AND ITS PRODUCTION

PUBN-DATE: May 13, 1997

## INVENTOR-INFORMATION:

NAME

COUNTRY

YAMADA, KENJI

HIRANO, HACHIRO

SATO, MASAKUNI

INT-CL (IPC): C03 B 19/08; C03 C 11/00; C08 K 3/40[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KOMC](#) [Draw Desc](#) [Image](#)[Generate Collection](#)[Print](#)

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